

## POWER OF ATTORNEY FROM ASSIGNEE

Broadcom Corporation, a California corporation having a principal place of business at 16215 Alton Parkway, Irvine, California 92618-7013, is assignee of the entire right, title and interest for the United States of America (as defined in 35 U.S.C. § 100), by reason of an Assignment to the Assignee executed on \_\_\_\_\_ of an invention known as **METHOD AND APPARATUS FOR FRACTIONAL-N SYNTHESIS** (Attorney Docket No. BP 1989), which is disclosed and claimed in a patent application of the same title by the inventor(s) Hung-Ming Chien and Meng-An Pan (said application filed on \_\_\_\_\_ at the U.S. Patent and Trademark Office, having Application Number \_\_\_\_\_).

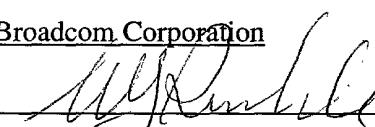
The Assignee hereby appoints the U.S. attorneys associated with Garlick, Harrison & Markison, LLP. to prosecute this application and any continuation, divisional, continuation-in-part, or reissue application thereof, and to transact all business in the U.S. Patent and Trademark Office connected therewith, such attorneys currently being: Bruce E. Garlick, Registration No. 36,520, James A. Harrison, Registration No. 40,401, Timothy W. Markison, Registration No. 33,534, Shayne X. Short, Registration No. 45,105, and Robert C. Strawbrich, Registration No. 36,692. The Assignee hereby grants said attorneys the power to insert on this Power of Attorney any further identification that may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office.

Send correspondence to:

GARLICK, HARRISON & MARKISON, LLP  
P.O. Box 160727  
AUSTIN, TEXAS 78716-0727.

Direct phone calls to Timothy W. Markison at (512) 342-0612.

FOR: Broadcom Corporation

SIGNATURE: 

BY: William J. Ruehle

TITLE: Vice President and Chief Financial Officer

DATE: November 30, 2001

Please Type a plus sign (+) inside this box

+

**DECLARATION FOR UTILITY OR  
DESIGN  
PATENT APPLICATION  
(37 CFR 1.63)**



Declaration  
Submitted  
with Initial  
Filing



Declaration  
Submitted after initial  
Filing (surcharge  
(37 CFR 1.16(e))  
required)

Attorney Docket Number	BP 1989
First Named Inventor	Hung-Ming Chien
<b>COMPLETE IF KNOWN</b>	
Application Number	
Filing Date	
Group Art Unit	
Examiner Name	

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first, and sole inventor (if only one name is listed below) or an original, first, and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**METHOD AND APPARATUS FOR FRACTIONAL-N SYNTHESIS**

the specification of which



is attached hereto  
OR



I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information, which is material to patentability as defined in 37 CFR 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?
			<input type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/>

Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YYYY)	<input type="checkbox"/> Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto
		<input type="checkbox"/>

**DECLARATION – Utility or Design Patent Application**

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application

U.S. Parent Application or PCT Parent Number		Parent Filing Date (MM/DD/YYYY)		Parent Patent Number (if applicable)	

Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto

Direct all correspondence to:  Customer Number OR  Correspondence address below  
or Bar Code Label

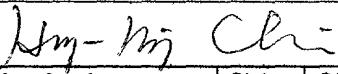
Name	Timothy W. Markison				
Address	Garlick, Harrison & Markison, LLP				
Address	P.O. Box 160727				
City	Austin	State	TX	Zip	78716-0727
Country	US	Telephone	(512) 342-0612	Fax	(512) 342-1674

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First Inventor:  A petition has been filed for this unsigned inventor

Given Name (first and middle [if any]) Family Name or Surname

Hung-Ming Chien

Inventor's Signature						Date	
Residence: City	Los Angeles	State	CA	Country	USA	Citizenship	ROC
Post Office Address	3290 Sawtelle Blvd.						
Post Office Address							
City	LA	State	CA	Zip	90066	Country	USA

Name of other Inventor:  A petition has been filed for this unsigned inventor

Given Name (first and middle [if any]) Family Name or Surname

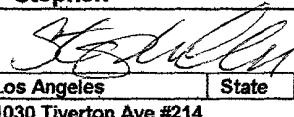
Meng-An Pan

Inventor's Signature						Date	
Residence: City	Cerritos	State	CA	Country	USA	Citizenship	ROC
Post Office Address	18826 Christina Ave						
Post Office Address							
City	Cerritos	State	CA	Zip	90703	Country	USA

Name of other Inventor:  A petition has been filed for this unsigned inventor

Given Name (first and middle [if any]) Family Name or Surname

Stephen Wu

Inventor's Signature						Date	
Residence: City	Los Angeles	State	CA	Country	USA	Citizenship	US
Post Office Address	1030 Tiverton Ave #214						
Post Office Address							
City	Los Angeles	State	CA	Zip	90024	Country	USA

Name of other Inventor:  A petition has been filed for this unsigned inventor

Given Name (first and middle [if any]) Family Name or Surname

Brima Ibrahim

Inventor's Signature						Date	
Residence: City	Los Angeles	State	CA	Country	USA	Citizenship	SIERRA LEONE
Post Office Address	15225 Saltair Ave #101						
Post Office Address							
City	Los Angeles	State	CA	Zip	90025	Country	USA

## Certificate Under 37 C.F.R. § 3.73(b)

Applicants: Hung-Ming Chien and Meng-An Pan

Application No.: Filing Date:

Entitled: **METHOD AND APPARATUS FOR FRACTIONAL-N SYNTHESIS**

**Broadcom Corporation**  
(Name of Assignee)

**a, California Corporation**  
(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1.  the assignee of the entire right, title, and interest, or
2.  an assignee of an undivided part interest

in the patent application/patent identified above by virtue of either:

A.  An Assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

OR

B.  A chain of title from the inventor(s) of the patent application/patent identified above to the current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

2. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

Additional documents in the chain of title are listed on a supplemental sheet.

Copies of assignments or other documents in the chain of title are attached.

**NOTE:** A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the PTO. See MPEP 302-302.8]

The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.

Date: November 30, 2001

Name: William J. Ruehle  
Title: Vice President and Chief Financial Officer

Signature: WJ Ruehle